

PPW – Ponderosa Pine Woodland (Map Unit 7)



Forest-like PPW

Photo credit: Jim Von Loh



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The Ponderosa Pine Woodland (PPW, Map Unit 7) represents a combination of the *Pinus ponderosa* / *Festuca arizonica* (Ponderosa Pine / Arizona Fescue) Woodland Association and the *Pinus ponderosa* / *Cercocarpus montanus* (Ponderosa Pine / Mountain Mahogany) Woodland Association.



Woodland-like PPW

Photo credit: Jim Von Loh



Woodland-like PPW

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Pinus ponderosa / *Festuca arizonica* (Ponderosa Pine / Arizona Fescue) Woodland Association – This association is found on moderate to steep slopes that are at mid-elevations (8265-8600 feet). Open woodland-like stands are mostly oriented to the southeast and southwest. Dense forest-like stands occupy northeast- to northwest-facing slopes of small hills and ridges, ranging from the mid-slope to the toeslope. On larger hills and ridges, the same midslope habitat would be occupied by *Pseudotsuga menziesii* / *Juniperus communis* Forest, and the toeslope would likely support *Picea pungens* / *Juniperus communis* Forest.

PPW – Ponderosa Pine Woodland (Map Unit 7) Continued

Pinus ponderosa / *Cercocarpus montanus* (Ponderosa Pine / Mountain Mahogany) Woodland Association –

This association occupies moderately steep slopes with south, east, and west exposures, ridgetops and adjacent upper slopes, and hilltops with a past logging history. It occurs from approximately 8400–8900 feet in elevation. The trees on these sites are heavily infested with mistletoe (*Arceuthobium americanum*), which leads to stunting.

Photo Signatures

In the forest-like part of the PPW, in the natural color aerial photography, the trees appear as dark green with a coarse mottled texture. They are 15-20 m tall and have a canopy of nearly 100% closed.

In the woodland-like part of the PPW with a *Festuca arizonica* understory, in the natural color aerial photography, the trees appear as medium dark green dots with a coarse texture. They are 15-20 m tall, have a canopy of 20% closed, and form a random pattern of fairly evenly dispersed dots. The background grasses and ground appears as tan with a smooth texture.

In the woodland-like part of the PPW with a *Cercocarpus montanus* understory, in the natural color aerial photography, the trees appear as medium dark green dots with a coarse texture. Sometimes there is a slight gray cast in the heavily stressed areas. They are 10–15 m tall, have a canopy of 15–25% closed, and form a random pattern of fairly evenly dispersed dots. The shrubs appear as small gray dots with a medium texture. They are 1–2 m tall, have a canopy of 5–15% closed, and also form a random pattern of fairly evenly dispersed dots. The background grasses and ground appears as tan with a smooth texture.

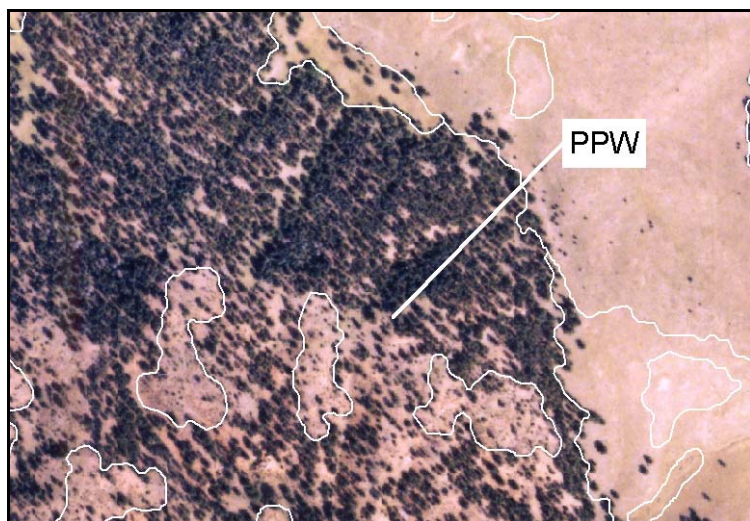
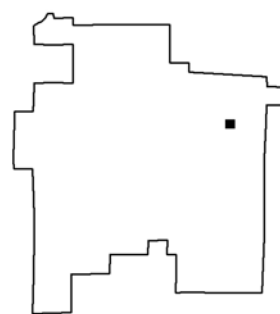


Photo PPW-1



Location of **PPW-1** within
National Monument

Photo PPW-1 was taken in September 1996. It contains the forest-like PPW in the northern portion and the woodland-like PPW with a *Cercocarpus montanus* understory in the southern portion.

PPW – Ponderosa Pine Woodland (Map Unit 7) Continued

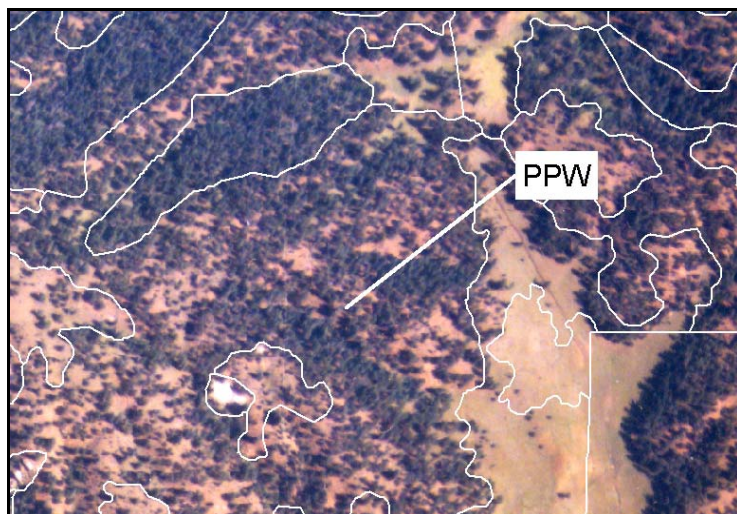
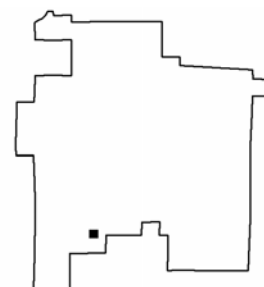


Photo PPW-2



Location of **PPW-2** within
National Monument

Photo PPW-2 was taken in August 1995. It contains a mix of the forest-like PPW, the woodland-like PPW with a *Festuca arizonica* understory, and the woodland-like PPW with a *Cercocarpus montanus* understory.

Area Report for PPW Map Unit

Number of Polygons: 332
Number of Hectares: 915.5
Number of Acres: 2261.3
Average Size: 2.8 hectares, 6.8 acres

Accuracy Assessment Results for PPW Map Unit

The Ponderosa Pine Woodland Map Unit was assessed at 73% for producers' accuracy (confidence interval 67-80%) and at 85% users' accuracy (confidence interval 79-91%).